



Technical Specifications

Atellica Sample Handler



The Atellica® Sample Handler is the sample processing component of the Atellica Solution and serves as the input/output interface regardless of the number of connected analyzers. The patented Atellica Magline® Transport connects all components in an integrated workflow. A multi-camera vision system with 360° view is designed to reduce bar-code reading errors, exception handling, and operator intervention. Controls and calibrators are refrigerated onboard and can be shared by all connected analyzers. Automated scheduling and delivery simplify the calibration and quality control process.

Up to three Atellica Sample Handlers can be integrated with up to seven Atellica Solution immunoassay and chemistry analyzers.

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Atellica Solution

Flexible, scalable, automation-ready immunoassay and clinical chemistry analyzers engineered to deliver control and simplicity so you can drive better outcomes

Experience the power of the Atellica® Solution, featuring patented bidirectional magnetic sample transport technology, the flexibility to create over 300 customizable configurations, and a broad assay menu with proven detection technologies.



Technical Specifications

Product Specifications

Description	Sample-handling component of Atellica Solution for input/output of routine samples, STAT samples, calibrators, and QC. Connects to the Atellica Solution immunoassay and clinical chemistry analyzers with the Atellica Magline Transport.
Configurations	Up to three Atellica Sample Handlers per configuration, supporting up to seven analyzers; connects to Aptio® Automation via Atellica® Sample Handler Connect
Field-upgradable	Yes—additional Atellica Sample Handlers can be added to an existing configuration

Sample Handling

Sample Throughput	Up to 500 tubes per hour
Sample Capacity	Up to 440 samples using 15-position racks and/or 55-position racks
Primary-tube Sampling	Yes, either direct or via an adapter for supported container types
Supported Tubes	>30 sample container types, including tube-top cups and micro-collection devices (list of validated containers available upon request)
Post-analytical Sorting	220 user-defined output positions
Identification of Nonsupported Tubes	Validated containers are automatically processed based on their characteristics. When nonvalidated containers are identified, the operator is alerted to remove them, and the sample will not be processed.

STAT Management

Loading	15-position STAT racks loaded in any position in the Atellica Sample Handler
Prioritization	STAT racks are recognized upon closing the drawer. STAT samples are immediately prioritized and supersede routine sample processing.

Calibration/QC Storage

Calibration/Control Capacity	60 positions
Cal/QC Temperature	Refrigerated, 2–8°C in a covered, enclosed environment

Atellica Magline Transport

Individual Sample Management	Yes
Sampling	Direct tube aspiration
Turns	90-degree turns: up to two per system
Technology	Electromagnetic
Sample Tracking	Continuous chain of custody

User Interface/Data Management

Monitor	22-inch touchscreen monitor
Operating System	MICROSOFT WINDOWS EMBEDDED STANDARD
System Documentation	Operator's Guide, Quick Guide, and Online Help
Data Storage	Up to 1 million results: 500,000 active and 500,000 historical; can archive to removable media
Host Interface	TCP/IP bidirectional—Ethernet
Host Query	TCP/IP—ASTM, IHE LAW-certified HL7 interface; system requests work order or batch of work orders from host
Remote Access and Service	Smart Remote Services via 1000BASE-T Ethernet port

Maintenance

Daily	Automated: <5 minutes; hands-on: <1 minute
Daily Atellica Magline Transport Autocheck	Automated: 10 minutes
Database Maintenance	Automated 5–30 minutes*
Onboard Maintenance Logs	Schedule and monitor routine maintenance activities via software

General Specifications

Power Requirements	Requires a 4.4 kVA (U.S.)/3.7 kVA (EU) power source; single-phase, 2-pole, 3-wire configuration; with Class III grounding. Will support incoming AC voltage from a nominal line voltage range of 200 to 240 VAC, 50/60 Hz. Main supply voltage fluctuations are not to exceed ± 10 percent of the nominal voltage.
Power Consumption	1.9 kilowatts/hour (maximum)
Water Requirements	None
Drain Requirements	None
Dimensions	Without monitor and without Atellica Magline loop: 146.5 (h) x 98 [†] (w) x 143.1 (d) cm; 57.7 (h) x 38.6 [†] (w) x 56.4 (d) inches
Weight	464.5 kg (1035 lb) [‡]
Compliance	Complies with international environmental, health, and safety standards including CE and RoHS
Noise Emission	Average Sound Pressure Level: 53 dBA
Processing Heat Output	3661 BTU/hour
Ambient Temperature	18°–30°C (64°–86°F)
Ambient Humidity	20–80% noncondensing
Altitude	0–2000 m (0–6562 feet)
Floor Load-Bearing Requirement	266 kg/m ^{2†}
Overvoltage Classification	Category II
Removable Media	USB
Compressed Air	None

Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica® portfolio of laboratory products.

Control.
Simplicity.
Better
Outcomes.

*Activities can be scheduled and are dependent on size and frequency of performance of activities

[†]Width measurement with the Atellica Magline loop is 122.2 cm (48.1 inches).

[‡]Includes Atellica Magline loop.

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An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

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